

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,057,773 B2  
APPLICATION NO. : 10/029267  
DATED : June 6, 2006  
INVENTOR(S) : Peter William Mitchell Ilbery

Page 1 of 5

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page, Item

(56) References Cited, OTHER PUBLICATIONS (page two), after "D. Hong et al.":  
"Dernel" should read -- Kernel--.

DRAWINGS:

Sheet 13, Figure 14, "HORIZONTAL" should read -- HORIZONTAL --;  
Sheet 14, Figure 15, "HORIZONTAL" should read -- HORIZONTAL --; and  
Sheet 15, Figure 16, "HORIZONTAL" should read -- HORIZONTAL --.

COLUMN 4:

Line 47, "lines" should read -- lies --; and  
Line 54, "253," should read -- 253. --.

COLUMN 5:

Line 57, "arc" should read -- are --.

COLUMN 11:

Line 45, "thereof It" should read -- thereof. It --; and  
Line 54, "worn" should read -- worm --.

COLUMN 12:

Line 36, "worn-free," should read -- worm-free, --.

COLUMN 13:

Line 17, "FIG. 8" should read -- FIG. 8 shows --.

COLUMN 14:

Line 48, "fiber" should read -- further --; and  
Line 65, "ie" should read -- ie. --.

COLUMN 15:

Line 21, "(ie e\_curr\_line<sub>ij</sub>)" should read -- (ie. e\_curr\_line<sub>ij</sub>) --.

COLUMN 17:

Line 56, " $h_{curr} = mask_{curr} + mask_{curr}^{*2} + mask_{curr}^{*3} +$ " should read  
--  $h_{curr} = mask_{curr} + mask_{curr}^{*2} + mask_{curr}^{*3} + \dots$  --.

COLUMN 19:

Line 62, "(7) follows:" should read -- (7) as follows: --.

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COLUMN 21:

Line 46, "approximations" should read -- approximation, --.

COLUMN 22:

Line 18, "singular" should read -- similar --;

Line 20, "his" should read -- this --;

Line 30, "function Note" should read -- funtion. Note --; and

Line 66, "small These" should read -- small. These --.

COLUMN 23:

Line 42, "arc" should read -- are --; and

Line 62, "patters" should read -- patterns --.

COLUMN 24:

Lines 63-64, form (63), " $(1/\pi)(b/(b^2+x^2)) * (1/\pi)(b/(b^2+x^2)) = (1/\pi)(2b/(2b)^2+x^2)$ " should read --  $(1/\pi)(b/(b^2+x^2)) * (1/\pi)(b/(b^2+x^2)) = (1/\pi)(2b/(2b)^2+x^2)$  --.

COLUMN 25:

Line 51, "the use" should read -- The use --.

COLUMN 27:

Line 24, "defused" should read -- defined --;

Line 42, "constant" should read -- constant. --;

Line 44, form (84), " $f(x) = (1/\pi)(1/r)(b/r)(1/\pi)b/(b^2+x^2)$ ," should read --  $f(x) = (1/\pi)(1/r)(b/r) = (1/\pi)b/(b^2+x^2)$ , --.

COLUMN 28:

Line 13, "It" should read -- it --.

COLUMN 29:

Line 6, form (93), " $(F(w))^n = F(nw)$  for  $n=1,2,3$ " should read

-- " $(F(w))^n = F(nw)$  for  $n=1,2,3\dots$  --;

Line 13, form (95), " $F(w)/F(w) = F(nw)/F(nw)$  for  $n=1,2,3$ " should read

--  $F(w)/F(w) = F(nw)/F(nw)$  for  $n=1,2,3\dots$  --;

Line 22, "real for" should read -- real. For --; and

Line 34, "function" should read -- function. --.

COLUMN 30:

Line 7, "unction" should read -- function --.

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COLUMN 33:

Line 29, "pixel" should read -- pixel. --.

COLUMN 35:

Line 42, "image" should read -- image. --;  
Line 57, "being" should read -- (being --.

COLUMN 36:

Lines 59-61, form (112), " $\sum_{1 \leq j \leq 12} e\_c[i] + \sum_{0 \leq i \leq 12} e\_n[i] =$   
table\_index\_upper\_bits-out" should read  
 $-- \sum_{1 \leq i \leq 12} e\_c[i] + \sum_{0 \leq i \leq 12} e\_n[i] = \text{table\_index\_upper\_bits\_out} --.$

COLUMN 37:

Line 39, "worn" should read -- worm --.

COLUMN 41:

Line 62, "image Because" should read -- image. Because --; and  
Line 67, delete "is".

COLUMN 42:

Line 65, "fill" should read -- full --.

COLUMN 43:

Line 42, "only" should read -- only. --

COLUMN 44:

Line 16, "tions" should read -- tions. --.

COLUMN 45:

Line 14, "next scanline" should read -- next scanline. --;  
Line 19, "(r<sub>ij</sub>)," should read (r<sub>ij</sub>). --; and  
Line 32, " $e\_prev\_line_{j+1} = \sum_{n \leq 1} (e\_line_{j+1-n} * h_{next} * ^n)$ " should read  
 $-- e\_prev\_line_{j+1} = \sum_{n \geq 1} (e\_line_{j+1-n} * h_{next} * ^n) --.$

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**COLUMN 46:**

Line 13, "left-light" should read -- left-right --;  
Line 36, delete "ps Shiau and Fan Extended Distribution Set Error";  
Line 37, "Diffusion" should read -- Shiau and Fan Extended Distribution Set Error Diffusion --;  
Line 44, "FIG. 26" should read -- FIG. 26. --;  
Line 51, "(U.S. Pat. No. 5,353,127)" should read -- (U.S. Pat. No. 5,353,127). --; and  
Line 65, "distribution" should read -- distribution. --.

**COLUMN 47:**

Line 33, "reasonable" should read -- is reasonable --; and  
Line 59, "function" should read -- function: --.

**COLUMN 48:**

Line 13, "mask;" should read -- mask: --;  
Line 34, "grey levels" should read -- grey levels. --; and  
Line 46, " $f(x)=(1/\pi)(1/(1+x^2))$ " should read --  $f(x)=(1/\pi)(1/(1+x^2))$  --.

**COLUMN 50:**

Lines 18 and 38, " $\sum_k h_{next}[k]=1$ ;" should read --  $\sum_k h_{next}[k]=1$ ; and --; and  
Lines 20 and 39, "distribution" should read -- distribution. --.

**COLUMN 51:**

Line 9, " $\sum_k h_{next}[k]=1$ " should read --  $\sum_k h_{next}[k]=1$ . --; and  
Line 56, "scanlines" should read -- scanlines. --

**COLUMN 52:**

Line 42, "integral)" should read -- integral). --; and  
Line 59, " $1/\pi r$ " should read -- $1/(\pi r)$  --.

**COLUMN 53:**

Line 28, delete "ti"; and  
Line 32, " $\sum_k h_{next\_target}[k]=1$ " should read --  $\sum_k h_{next\_target}[k]=1$  --.

**COLUMN 54:**

Lines 8-9, " $h_{next\_actual}=(\delta 30 mask_{curr} + mask_{curr}^2 + mask_{curr}^4 + mask_{curr}^6 \dots) * mask_{next}$ " should read  
--  $h_{next\_actual}=(\delta + mask_{curr} + mask_{curr}^2 + mask_{curr}^4 + mask_{curr}^6 \dots) * mask_{next}$  --; and  
Line 33, "distribution" should read -- distribution. --.

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**COLUMN 55:**

Line 17, "FIG. 35" should read -- FIG. 35. --.

**COLUMN 57:**

Line 10, "pixel;" should read -- pixel; and --;

Line 41, "(i) on" should read -- (i) on --; and

Line 49, "fight" should read -- right --.

**COLUMN 58:**

Line 4, "offsets;" should read -- offsets; and --.

**COLUMN 59:**

Line 22, "self-convolution;" should read -- self-convolution; and --.

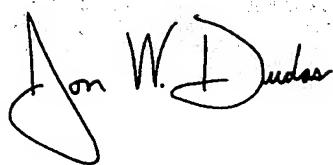
**COLUMN 60:**

Line 36, "embodie" should read -- embodied --; and

Line 52, "response;" should read -- response: --.

Signed and Sealed this

Sixteenth Day of January, 2007



JON W. DUDAS  
*Director of the United States Patent and Trademark Office*